

Title (en)
Selfregulating heating element

Title (de)
Selbstregelndes Heizelement

Title (fr)
Élément de chauffage à autorégulation

Publication
EP 0793399 A2 19970903 (DE)

Application
EP 97103147 A 19970226

Priority
DE 19607699 A 19960229

Abstract (en)
The element combines a strip conductor (1), having little or no temperature coefficient of specific resistance, and a sleeved wire conductor (2) having a positive coefficient. The sleeve (13), e.g. of nickel-chrome alloy, is insulated from the wire (11) by a layer (12) e.g. of magnesia ceramic. The wire is connected in series with the strip and thermally coupled to it throughout its length. Both the strip and the wire may consist of parallel-connected portions. The sleeve also provides corrosion protection for the wire.

Abstract (de)
Selbstregelndes Heizelement zum Erwärmen eines gasförmigen strömenden Mediums mit einem Bandleiter 1 und einem Regelleiter 2, die elektrisch in Reihe zueinander geschaltet und über ihre Länge in thermischem Kontakt miteinander, elektrisch jedoch gegeneinander isoliert angeordnet sind. Der Regelleiter 2 besteht insbesondere aus einem Mantelleiter, dessen metallischer Mantel mit dem Bandleiter 1 elektrisch verbunden ist. <IMAGE>

IPC 1-7
H05B 1/02; **H05B 3/14**

IPC 8 full level
B60N 2/56 (2006.01); **H05B 1/02** (2006.01); **H05B 3/14** (2006.01)

CPC (source: EP KR)
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Cited by
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